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## SEMICONDUCTOR FILM (54) METHOD OF FORMING

(57) Abstract:

decomposition of specified silane using thermal decomposition or optical forming an Si film on a substrate by Si film growth and epitaxial growth of PURPOSE: To enable polycrystalline large mobility at a low temperature, by

optically decomposing raw material of formed on a substrate by thermally or CONSTITUTION: An Si film is

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projected or plasma is utilized. set at 100°C, and ultraviolt rays are operation is realized. The similar charge mobility and high speed using an Si film has large electric be formed when the temperature of a whose grain diameter is about 3μm can silane (SinH2n+2), n 3, like trisilane material, the substrate temperature is using Si3H8 or Si4H10 as raw to epitaxially grow a single crystal Si at 100°C with ultraviolet rays. In order polycrystal can be obtained by Pyrex glass substrate is 400°C. A TFT CVD method, a polycrystalline Si film (Si3H8) and tetrasilane (Si4H10). By film on a single crystal Si substrate by irradiating the surface of the substrate

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